delineation
Posted by aswallow - 2008/06/19 18:47

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I cannot seem to delineate my watershed. I keep getting errors stating that delineator is not responding and it kicks me out of ArcMap altogether. This has happened 3x, need help.

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Re:delineation
Posted by isochrome - 2008/06/20 20:04

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I've been trying to delineate the watershed and it doesn't seem to work with my data. The tutorials work just fine, but when I used my DEMs and ask to generate the watershed an error comes:
Error in Value 14 something ....
I've tried different DEM files and also generating the flow dir and flow accu in both ArcMap and AGWA, and nothing seems to work.
Any insigths?

Thanks
Coral-USGS

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Re:delineation
Posted by isburns - 2008/06/23 21:21

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@Coral
I am working with someone else right now who got this error but I haven't been able to reproduce it or figure out what's causing it yet. Can you provide me some more details that may help in finding the problem?

What ArcGIS version are you using and what service packs are installed?
Are you using any network drives for gis data or the workspace location?
In ArcGIS Desktop Administrator, what software product/license is being used (ArcInfo, ArcEditor, or ArcView)?
Can you give me the output workspace path and the paths and filenames of the input rasters (dem, fdg, and facg)?
What version of Windows are you using?
What type of user account in Windows are you using?
Is there anything special about the output location selected?
Do you have the appropriate permissions to create a new directory at the output location selected?

@aswallow
Can you provide some more information on the errors that you are getting? Does that progress bar move at all in the delineator form? If so, what is the status of it when you start getting errors? How big of a delineation are you trying-could it be that your DEM is so large that AGWA hasn't finished

processing it (if you think it's locked up and try to close it to soon, you might get messages like you're seeing)?

Thanks

Shea

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Re:delineation
Posted by isburns - 2008/06/29 05:05

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Aaron,
If it's getting stuck after you fill the DEM, try using the Fill, Flow Direction and Flow Accumulation tools in ArcToolbox->Spatial Analyst Tools->Hydrology (or ArcHydro, though I think ArcToolbox is a little simpler). Once you have those, try the delineation again and report back. I haven't heard of anyone getting stuck with the program not responding, which is why I was asking if it was possible it wasn't done processing (there are times when the progress bar will not move for a while and because the form only refreshes when the progress bar moves it gives the appearance of the whole program being locked up.

What sort of problems are you having with workspaces? What kind of questions do you have or would you like answered in a Dummies guide? If you'd like to start another post with some of those questions to keep things organized a bit, feel free and I'll answer over there. It could end up helping other people with similar questions.

Shea

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Re:delineation
Posted by karrez - 2008/09/18 22:24

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i am having these same problems. the delineation process is almost complete when the message "delineation failure" appears for no apparent reason. like the above user, also i have tried using a variety of DEMS, FDGs, and FACG created in a variety of ways. i have tried selecting different output locations just to see if perhaps my location is problematic but nothing seems to help. i have tried different basin sizes as well.

i don't presume that you can tell me how to fix the problem based only on what i've told you but perhaps a solution to the problem has been found since the last message was posted two months ago and i was hoping that someone could share with me this solution.

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Re:delineation
Posted by isburns - 2008/09/21 21:05

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We've seen this problem but have not been able to isolate the cause yet. Were you able to complete the delineations and/or discretizations in any of the tutorials? If so, this indicates that some difference in the source data (size, location, projection, etc) or the output location between the tutorial and your data is the cause, but despite this we're still having trouble determining what that is. It could also be the configuration of your computer, because we've seen delineations fail on one computer and succeed on another with no obvious reason why.

Have you tried delineated any larger/smaller watersheds or using a different DEM? If you have access to and could try it on another computer, you might try that. What version of ArcGIS are you using and with what service packs?

Shea

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Re:delineation
Posted by karrez - 2008/09/22 16:55

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i have tried delineating a larger watershed. i have also tried using a downloaded DEM as well as the filled DEM generated by the model. the delineation window WILL create new DEM and/or stream grid but will not delineate the watershed. i do have access to other computers but was hoping to avoid that alternative if at all possible.

to answer your other questions, i am working with ArcGIS 9.2 and i have all the normal extensions. 3d analyst, geostatistical analyst, spatial analyst, etc. we have 9.3 licenses for all of the computers in the lab but i was planning on putting off installation on the machine i use because i have been told there is no 9.3 support for AGWA2 yet.

the delineation works fine in the tutorials but not with my data. i can't imagine the issue is with projection or size but file management and output location could be an issue. one possible issue couldbe with our computers having a deepfreeze installed to protect their harddrives. though i AM able to thaw and freeze the harddrive when i need to add or remove programs.

i appreciate your input. when i figure out the problem and solution i will share them.

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Re:delineation
Posted by karrez - 2008/09/23 21:11

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the problem (whatever it was) was bypassed by simply opening a new Arcmap map, adding only the DEM, and creating the FACG and FDG while i delineated the watershed. don't know what the problem was but i believe it had to do with projection issues because the location bar at the bottom right of the screen was registering in decimal degrees while all of my data was in meters.

anywho, crisis averted for now.

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Re:delineation
Posted by isburns - 2008/09/23 21:56

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Thank you so much for taking the time to post back! I'm not sure why I never looked into projections more, one of those times where you can't see the forest for the trees I guess. Anyway, I was finally able to reproduce this problem by setting the coordinate system of the data frame to a projection other than the projection of the DEM. You must also save and exit the project, at least in ArcGIS 9.0, after you correct the Data Frame's coordinate system for everything to work properly in AGWA.

Moral of the story, if you're getting delineation failure messages double check that all of your data is projected correctly and that the coordinate system/projection of the Data Frame matches the coordinate system/projection of your DEM. If you need to change the Data Frame coordinate system/projection, make the change, save the project, exit and reopen the project before attempting a delineation.

Shea

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